22

cD2-996

100

APPENDIX_A

PRIMERS DESIGNED FOR DEN-2 CLONING/SEQUENCING PROJECT:

| SEQ. | | | • |
|-------------|------------------|-----------|--|
| NO: | PRIMER | MER/SENSE | SROURNCE |
| 3 | pUC/H13-P5 | 25/+ | 5'-CCCAGTCACGACGTTGIAAAACGAC-3' |
| 4 | PUC/M13-P5B | 27/+ | 5'-GGATOTGCTGCAAGGCCATTAAGTTGG-3' |
| 5 | POC/N23-P3 | 25/+ | 5'-TGAGGGGATAACAATTTCACACAGG-3' |
| 6 | PUC/H13-P3B | 27/- | 5'-GGCTTTACACT/TATGCTTCCGGCTCG-3' |
| 7 | D2-1-ECO.T7 75/+ | · | 5'-GCGGATATTG/GAATTC/TCTAGA/ AATTTAATACGACTCACTATA/ AGTTG/TAGTCTACGTGGACCGACAAAGACAG-3' (5'-Fill /EcoRl /Kbal/77 Promoter/ 5'-end of DEN-2) |
| 8 | D2-5MT71 | 77/+ | 5'-ccagt/gartic/gagctc/acgcgt/ Arattiartaccactcactata/ Agitgitagtctacgtggaccgacaaagacag-3' |
| | | | (5'-Pill/EcoRI/SstI/MluI/T7 Promoter/ 5'-end of DEN-2) |
| 9 | D2-1 | 24/+ | 5'-AGTTGTTAGTCTAGGTGGACCGAC-3' |
| 10 | D2-28 | 34/+ | 5'-GACAGATTCTTTGAGGGAGCTGAGCTCAACGTAG-3' |
| 11 | D2-134 | 28/+ | 5'-TCANTATGCTGAAACGCCAGAGAAAACCG-3' |
| 12 | cD2-250 . | 26/- | 5'-GGGATTGTTAGGAAACGAAGGAACGC-3' |
| 13 . | D2-274 | 32/+ | 51-CCACCAACAGCAGGGATACTGAAAAGATGGGG-31 |
| 14 | cD2-378 | 25/- | 5'-TGCAGATCTGCGTCTCCTATTCAAG-3' |
| 15 | D2-528 | 25/+ | 5'-CGTGAACATGTGTACCCTCATGGCC-3' |
| 16 | cD2-616 | 26/- | 5'-TTGCACCAACAGTCAATGTCTTCAGG-3' |
| 17 | D2-616 | 25/+ | 5'-ACCAGAAGACATAGATTGTTGGTGC-3' |
| 18 | cD2-618 | 25/- | 5'-GCACCAACAGTCTATGTCTTCTGGC-3' |
| 19 | cD2-771 | 25/- | 5'-ATGITTCCAGGCCCCTTCTGATGAC-3' |
| 20 | D2-847 | 25/+ | 5'-GCAGCAATCCTGGCATACACCATAG-3' |
| 21 | D2-996 | 27/+ | 5'-GGTTGACATAGTCTTAGAACATGGAAG-3' |

5'-CITCCATGITCTAAGACTATGTCAACC-3'

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| SEQ. | | • | 101 |
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| ID | PRIMER | MER/SENSE | SEQUENCE : |
| 23 | _D2-1005 | 35/+ | 5'-GTCTTALAACATGGAAGTTGTGTGACGACGATGGC-3' |
| 24 | D2-1141 | 25/+ | 5'-ACAACAGAATCTCGCTGCCCCAACAC-3' |
| 25 | D2-1211 | 25/+ | 5'-GCARACACTCCATGGTAGACAGAGG-3' |
| 26 | cD2-1211 | 25/- | 5'-CCTCTGTCTACCATGGAGTGTTTGC-3' |
| 27 | CD2-1227 | 27/- | 5'-CCACATCCCATTTCCCCCATCCTCTGTCT-3' |
| 28 | D2-1261 | 30/+ | 5'-GGAAAGGGAGGCATTGTGACCTGTGCTATG-3' |
| 29 | D2-1416 | 28/+ | 5'-GGAAATCAAAATAACACCACAGAGTTCC-3' |
| 30 | cD2-1503 | 34/- | 5 - CTGCAGCAACACCATCTCATTGAAGTOGAGGCCC-3 |
| 31 | D2-1510 | 25/+ | 5'-GACTTCAATGAGATGGTGCTGC-3' |
| 32 | cD2-1510 | 25/+ | 5'-GCAGCAGCACCATCTCATTGAAGTC-3' |
| 33 | D2-1546 | 28/+ | 5'-AAGCTTGGCTGCACAGGCAATGGTT-3' |
| 34 | cD2-1567 | 27/- | 5'-TGGTAACGGCAGGTCTAGGAACCATTG-3' |
| 35 | D2-1777 | 23/+ | 5'-GGACATCTCAAGTGCAGGCTGAG-3' |
| 36 | cD2-1777 | 23/+ | 5'-CTCAGCCTGCACTTGAGATGTCC-3' |
| 37 | D2-1863 | 27/+ | 5'-GAAGGAAATAGCAGAAACACATCG-3' |
| 38 | CD2-1888 | 33/- | 5'-CCCTTCATATTGTACTCTQATAACTATTGTTCC-3' |
| 39 | D2-2047 | 32/+ | 5'-CCTCCATTCGGAGACAGCTACATCATCATAGG-3' |
| 40 | cD2-2047 | 32/- | 5'-CCTATGATGATGTAGCTGTCTCCGAATGGAGG-3' |
| 41 | D2-2170 | 29/+ | 5'-ATCGCCATTTIAGGTGACACAGCCTGGGA-3' |
| 42 | cD2~2200 | 27/ - | 5'-TGTAAACACTCCTCCCAGGGATCCAAA-3' |
| 43 | D2-2308 | 29/+ | 5'-CTCATAGGAGTCATTATCACATGGATAGG-3' |
| 44 | cD2-2504 | 35/- | 5'-GGGGATTCTGGTTGGAACTTATATTGTTCTGTCC-3' |
| 45 | eD2-2622 | 30/- | 5'-TGATTCAATTCTGGTGTTATTTGTTTCCAC-3' |
| 46 | D2-2702 | 25/+ | 5'-AAGGAATCATGCAGGCAGGAAAACG-3' |
| 47 | cD2-2864 | 22/- | 5'-ACTTCCAGCGAGTTCCAAGCTC-3' A A |
| 48 | D2-2992 | 25/+ | 51-AACAGAGCCGTCCATGCCGATATGG-31 |
| 49 | cD2-3105 | 22/- | 5 · -TCCATTGCTCCA&AGGGTGTGT-3 · G |
| 50 | D2-3236 | 25/+ | 5'-AGCTTGAGATGGACTTTGATTTCTG-3' |

| SEQ. | | • | 102 |
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| NO: | PRIMER | MER/SENSE | SECUENCE |
| 51 | cD2-3410 | 22/- | 5'-GGTCTGATTTCCATCCCGTACC-3' |
| 52 | D2-3621 | 23/+ | 5'-GTCCTTTAGAGACCTGGGAAGAG-3' |
| 53 | cD2-3739 | 25/- | 5'-GTTTTCTCAAGAGTAGTCCAGCTGC-3' C |
| 54 | D2-3905 | 25/+ | 5'-ATCAATTGGCAGTGACTATCATGGC-3' |
| 55 | cD2-4002 | 25/- | 5'-TGTTAAGAGCAGTGGAGAAACGGAC-3' A G |
| 56 | cD2-4060 . | 25/- | 5'-GATTGAGACCTTTGATCGTCAACGC-3' |
| 57 | D2-4214 | 25/+ | 5'-TGACAGGACCATYAGTGGCTGGAGG-3' |
| 58 | D2-4257 | 34/+ | 5'-OBTGCTCACTGGACGATCGGCCGATTTGGAACTG-3' |
| 59 | cD2-4323 | 24/- | 5'-GGGCTGCTTCCTGATATTTCTGCC-3' |
| 60 | D2-4497 | 25/+ | 5'-CCTGTGGGAAGTGAAGAAACAACGG-3' |
| 61 | cD2-4557 | 30/ | 5'-GCTCCATCTTCCAGTTCAGCCTTTCCCATG-3' |
| 62 . | cD2-4615 | 25/- | G G A |
| 63 | D2-4746 | 25/+ | 5'-CCTARTATCATATGGAOGAGGCTGG-3' |
| 64 | D2-4792 | 25/+ | 5'-GRAGGAGAAGAAGTCCAGGTATTGG-3' |
| 65 | cD2-4922 | 25/- | 5'-CIOTOGACARTIGGAGATCCTGACG-3' T T |
| 66 | D2-4994 | 25/+ | 5'-GTGGGGCATATGTGAGTGCTATAGC-3' |
| 67 | D2-5124 | 25/+ | 5'-TCTGACTATGGCCGGAAGGTATCTC-3' |
| 68 | D2-5173 | 25/+ | 5'-ACATTAATCTTOGCCCCCACTAGAG-3' |
| 69 · | cD2-5272 | 19/- | 5'-CEATCTCCCGCCCGGTGTG-3' A |
| 70 | cD2-5318 | 25/ | 5'-CTAACTGGTGATAGCAGCCTCATGG-3' |
| 71 . | cD2-5656 | 27/- | 5'-CCTACTGAGTTGTATCACTTTCTTTCC-3' |
| 72 | cD2-5891 | 26/- | 5'-TGGATTTCTTCCTATTCTCCCTCTTC-3' |
| 73 | D2-5770 | 25/+ | 5'-TTCARGGCTGAGAGGGTTATAGACC-3' |
| 74 | D2-6152 | 25/+ | 5'-TCTGGFTGGCCTACAGAGTGGCAGC-3' |
| 75 | cD2-6252 | 27/- | 5'-CCTTCTTTGTCCAGATTTCCACTTCC-3' |

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| SEQ. | | | 103 |
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| <u> 190:</u> | PRIMIER | MER/SENSE | SHOURNER |
| 76 | D2-6493 | 35/+ | 5'-GOGTACAACCATGCTCTCAGTGAACTGCCGGAGAC-3' |
| 77 | cD2-6605 | 24/- | 5'-TTCCCAGGGTCATCTTCCCTATAC-3' |
| 78 | cD2-6624 | 31/- | 5'-GATGCTAGCCGTGATTATGCAGCACATTCCC-3' |
| 79 | D2-6748 | 25/+ | 5'-AAACAGAGAACACCCCAAGACAACC-3' |
| 80 | cD2-6932 | 21/- | 5'-CGGCATACAGCGTCCATGCTG-3' |
| 81 | D2-7055 | 25/+ | 5'-GTCTCGGGAAAGGATGGCCATTGTC-3' |
| 82 | cD2-7195 | 25/- | A G G |
| 83 | cD2-7217 | 27/- | 5'-CCGCCGCTGCTCTTTCTGAGCTTCTC-3' |
| 84 | D2-7378 | 25/+ | 5'-AGGACTACATGGGCTCTGTGTGAGG-3' |
| 85 | cD2-7515 | 19/- | 5'-GAGAAGTCCAGCTCCGGCC-3' |
| 86 | D2-7769 | 25/+ | 5'-AGAGAACATGGTCACACCAGAAGG-3' |
| 87 | cD2-7885 | 22/- | 5'-GTTCTTOGTGTCCTGGTCCTCC-3' |
| 88 . | D2-8165 | 25/+ | 5'-GGAAATATGGAGGAGCCTAGTGAGG-3' |
| 89 | cD2-8210 | 22/- | 5'-ACCCAGTACATCTCATGTGGG-3' |
| 90 | D2-8428 | 28/+ | 5'-GAGCATGAAACATCATGGCACTATGACC-3' |
| 91 | D2-8440 | 25/+ | 5'-TCATGGCACTATGACCAAGACCACC-3' |
| 92 | cD2-8529 | 22/- | 5'-CAGTCTGACCACTCCGTTCACC-3' C A G |
| 93 | D2-8773 | 25/+ | 5'-AAGGTGACAAGCAATGCAGCCTTGG-3' |
| 94 | D2-B798 | 29/+ | 5'-GGGCCATATTCACTGATGAGAACAAGTGG-3' |
| 95 | cD2-8865 | 22/- | 5'-TCTTTCCCTGTCAACCAGCTCC-3' C T |
| 96 | D2-9046 | 25/+ | 5'-AATGAAGATCACTGGTTCTCCAGAG-3' |
| 97 | D2-9131 | 25/+ | 5'-ACGTGAGCAAGAAAGAGGGAGGAGC-3' |
| 98 | cD2-9166 | 22/- | 5.'-TGTCCCATCCTGCTGTGTCATC-3' A G |
| 99 | cD2-9234 | 30/- | 5'-GCTAGTTTCTTGTGTTCTCCTTCCATGTGG-3' |
| 100 | D2-9344 · | | 5'-TCATATCERGAAGAGACCAAAGAGG-3' |
| 101 | cD2-9429 | 24/- | 5'-ACTCCTTCTCCCTCCATCTGTCTG-3' |

| SEQ. | | | 104 |
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| 190: | PRIMER | MER/SENSE | SRODERCE |
| 102 | CD2-9438 | 27/ - | 5'-ATGCTTTIGAAGATTCCTTCTCCCTCC-3' A C |
| .103 | CD2-9468 | 32/- | 5'-GCACAGCGATTTCTTCTGTGATTGTTAGGTGC-3' |
| 104 | D2-9645 | 25/+ | 5'-ACAATGGGAACCTTCAAGAGGATGG-3' |
| 105 | D2-9656.BAM | 45/+ | 5'-TTATCACATT/GGATCC/TTCAAGAGGATGGA ATGATTGGACACAAG-3' |
| | | | (5'-Fill/BamHI/DEN-2 Sequence) |
| 106 | cD2-9668 | 28/- | 5'-CAGAAGGGCACTTGTGTCCAATCATTCC-3' |
| 107 | cD2-9779 | 21/- | 5'-CTCCCTGGGAAATTCGGGCTC-3' T G |
| 108 | cD2-9796 . | 28/- | 5'-COGTCTCCCGCAAAGACCACCCTGCTCC-3' |
| 109 | cD2-9796.XBA | 44/- | 5'-TIATCACCTA/TCTAGA/CCGTCTCCC GCAAAGACCACCTGCTCC-3' |
| 110 | cD2-9913 | 26/- | 5'-GTTGGAACCCAATGTGATGGTACTGC-3' |
| 111 | D2-9937 | 25/+ | 5'-ACAGTOGAACAACCTGGTCCATAC-3' |
| 112 | cD2-9977 | 21/- | 5'-GCATGTCTTCCGTCGTCATCC-3' |
| 113 | cD2-10003 | 25/- | 5'-CTTGAATCCACACCCTGTTCCAGAC-3' |
| 114 | D2-10203 | 25/+ | 5'-ATACACAGATTACATGCCATCCATG-3' |
| 115 | cD2-10261 | 21/- | 5'-TTTTGCCTTCTACCACAGGAC-3' T A |
| 116 | D2-10289 | 25/- | 5'-GAAACAAGGCTAGAAGTCAGGTCGG-3' |
| 117 | cD2-10337 | 23/- | 5'-GACGGGGCTCACAGGTAGCATAG-3' |
| 118 | D2-10418 | 25/.+ | 5'-GCCTGTAGCTCCACCTGAGAAGGTG-3' |
| 119 | D2-10470 | 25/+ | 5'-GGAAGCTGTACGCATGGCGTAGTGG-3' |
| 120 | cD2-10530 | 19/- | 5'-GGCCCCCGTTGTTGCTGC-3' A |
| 121 | cD2-10687 | 59/- | 5'-AGAACCTGTTGATTCAACAGCACCATTCCATTTTCTG-3' |
| 122 | cD2-10687.XBA | 59/- | 5'-TTATCACCTA/GCATGC/TCIAGA/ AGAACCTGTTGATTCAACAGCACCCATTCCATTTTCTG-3' |
| | | | (5'-Fill/SphI/XbaI/ 3'-End DEN-2 Sequence) |
| 123 | cD2-10687.X2 | 52/ | 5'-TTATCACCTA/TCTAGA/ GAACCTGTTGATTCAACAGCACCATTCCATTTTCTG-3' |
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(5'-Fill/YbaI/ 3'-End DEN-2 Sequence)